

***HIV/AIDS and STDs:
Alabama's Epidemic***

*This program was originally broadcast on
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Program Objectives

- To understand the principles of the Alabama Department of Public Health STD Division's Treatment and Control policies.
- To understand ADPHs STD Division's Visit Standards and Clinical Indicators and be able to implement as needed.

Program Objectives

- To understand the tracking efforts of ADPHs to link newly diagnosed clients into care.
- To provide data reflecting trends of the HIV/AIDS epidemic in Alabama.

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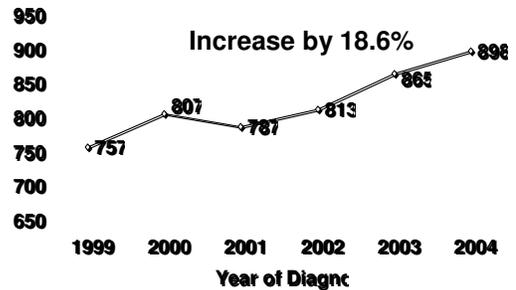
**HIV/AIDS Cases Diagnosed
Among Alabama Residents**

- Between 1982 – 2004, a total of 13,323 Alabama residents have been diagnosed with HIV/AIDS (HIV 5,552; AIDS 7,771). Includes 121 pediatric HIV/AIDS cases.
- Of the 13,323 HIV/AIDS cases reported among Alabama residents, 8,467 are known to be living.

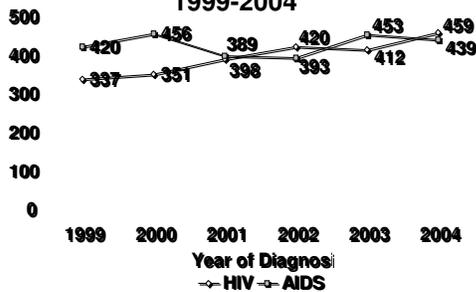
HIV/AIDS Cases Diagnosed Among Alabama Residents

- People residing in PHA II, IV, VIII, and XI comprise nearly 72% of the HIV/AIDS cases diagnosed between 1982-2004.
- Males represent over 75% of the HIV/AIDS cases diagnosed in Alabama.
- Although blacks traditionally represent 26% of Alabama's population, they comprise nearly 63% of the state's HIV/AIDS cases.

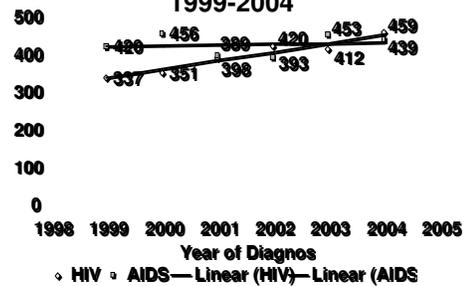
Alabama HIV/AIDS Cases by Year of Diagnosis, 1999-2004



Alabama HIV/AIDS Cases by Disease Category and Year of Diagnosis, 1999-2004



Alabama HIV/AIDS Cases by Disease Category and Year of Diagnosis, 1999-2004

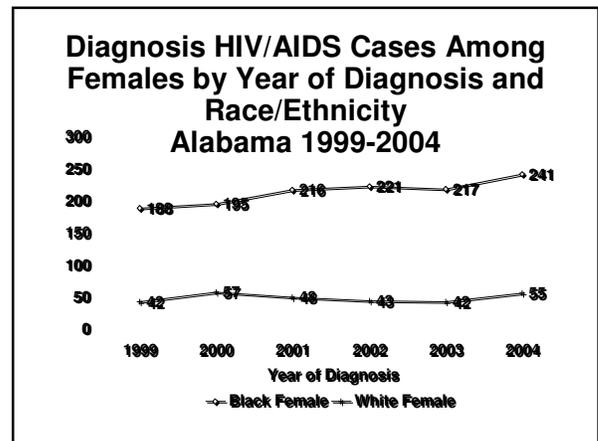
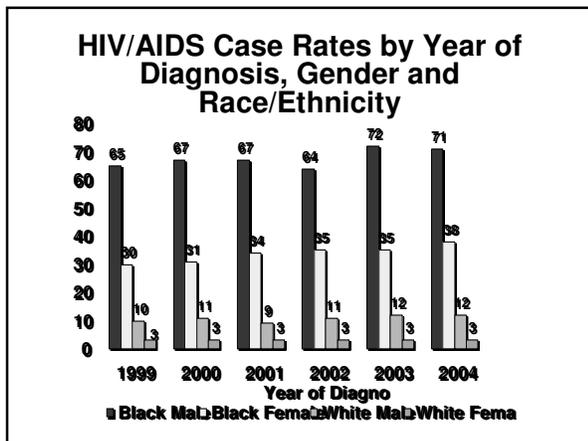
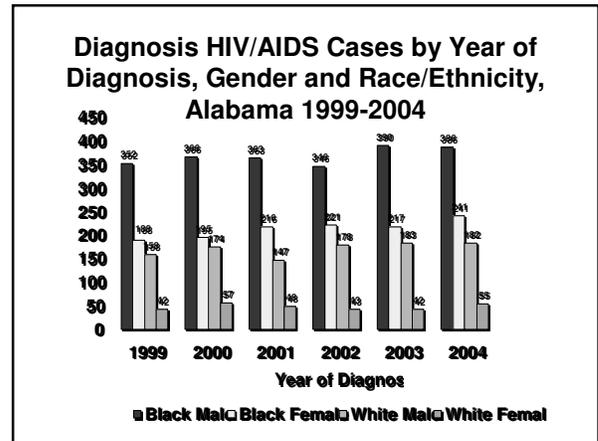
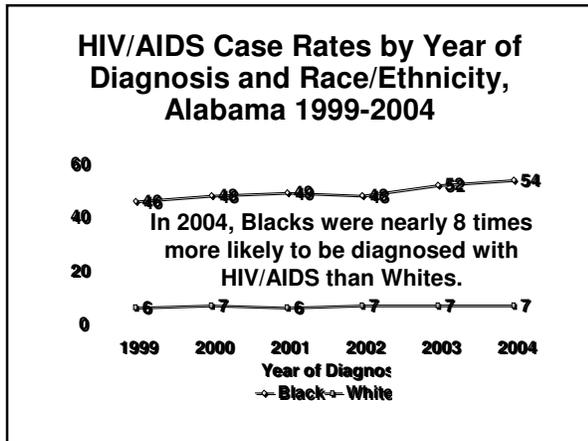
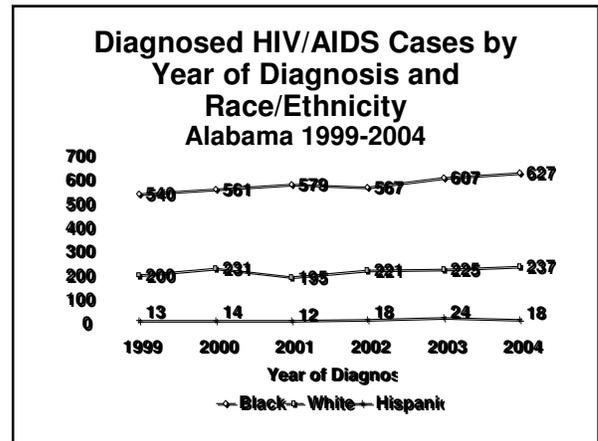
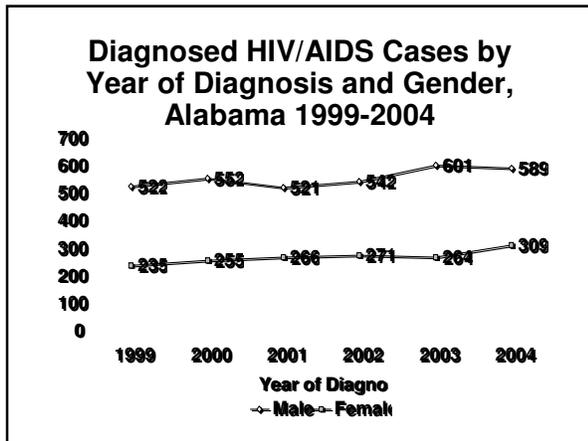


Length of Time Between HIV and AIDS Diagnosed Among Alabama Residents Diagnosed with AIDS in 2004

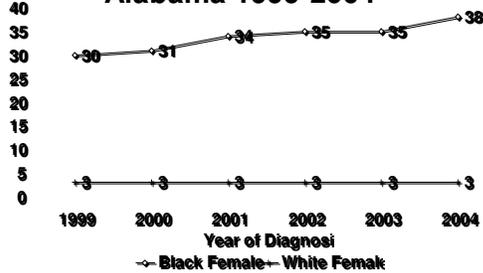
- In 2004, a total of 439 Alabama residents were diagnosed with AIDS.
 - Thirty-seven percent (163/439) were diagnosed with AIDS within 60 days of receiving their first positive HIV Western Blot or Detectable HIV viral load test result.

Length of Time Between HIV and AIDS Diagnosed Among Alabama Residents Diagnosed with AIDS in 2004

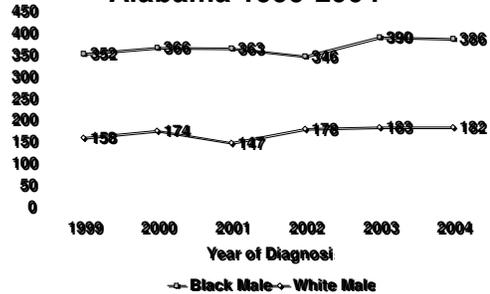
- Twelve percent were diagnosed with AIDS within 61 – 365 days of receiving their first positive HIV Western Blot or Detectable HIV viral load test result.



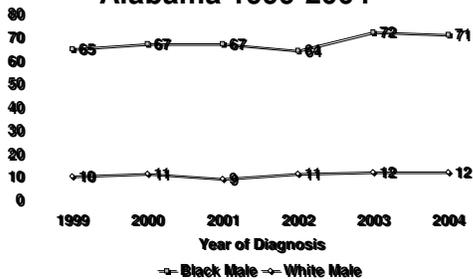
HIV/AIDS Case Rate Among Females by Year of Diagnosis and Race/Ethnicity Alabama 1999-2004



Diagnosed HIV/AIDS Cases Among Males by Year of Diagnosis and Race/Ethnicity Alabama 1999-2004



HIV/AIDS Case Rate Among Males by Year of Diagnosis and Race/Ethnicity Alabama 1999-2004



Presumptive Heterosexual Category

Currently collected HIV/AIDS exposure categories are not adequate to ascertain high risk sexual activity. The epidemic continues to present unique challenges for determining risk factors. In an attempt to meet this unique challenge we have developed a presumptive heterosexual category (PHC) based on the following criteria:

Presumptive Heterosexual Category

An adult male or female who denies injection drug use, denies male to male sex (MSM) – (for men only); has had sex with someone of the opposite sex for whom HIV risk and HIV serostatus is unknown, and has had one or more of the following risks: history of STD or hepatitis, non-injection drug use, prostitution, multiple sex partners, or is a victim of sexual assault.

Presumptive Heterosexual Category

Pediatric HIV and AIDS cases with a history of sexual contact may be counted as probable heterosexual contact if perinatal exposure is excluded and the above conditions are met.

HIV/AIDS Diagnosis by Gender and Exposure Category, Alabama 2004

| Exposure category | Males | | Females | | Total | |
|-------------------|------------|----------------|------------|----------------|------------|----------------|
| | No. | % ^a | No. | % ^a | No. | % ^a |
| MSM | 309 | 52 | 0 | 0 | 309 | 34 |
| IDU | 39 | 7 | 30 | 10 | 69 | 8 |
| MSM/IDU | 19 | 3 | 0 | 0 | 19 | 2 |
| Hetero Contact | 84 | 14 | 160 | 52 | 244 | 27 |
| NIR | 137 | 23 | 117 | 38 | 254 | 28 |
| Total | 589 | 66 | 309 | 34 | 898 | 100 |

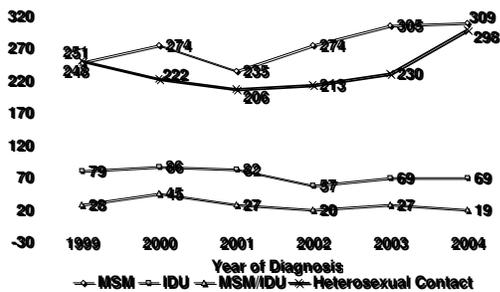
^aCalculated as the percentage of all cases diagnosed in 2004.

HIV/AIDS Diagnosis by Gender and Exposure Category Utilizing the PHC Criteria, Alabama 2004

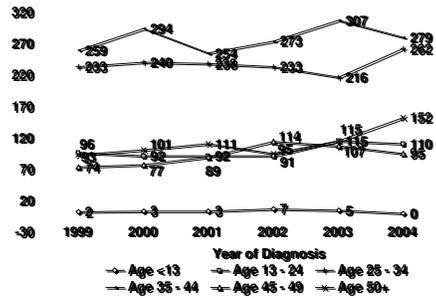
| Exposure category | Males | | Females | | Total | |
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| | No. | % ^a | No. | % ^a | No. | % ^a |
| MSM | 309 | 52 | 0 | 0 | 309 | 34 |
| IDU | 39 | 7 | 30 | 10 | 69 | 8 |
| MSM/IDU | 19 | 3 | 0 | 0 | 19 | 2 |
| Hetero Contact | 84 | 14 | 160 | 52 | 244 | 27 |
| PHC | 45 | 8 | 40 | 12 | 85 | 9 |
| NR | 92 | 16 | 77 | 25 | 169 | 18 |
| Total | 589 | 66 | 309 | 34 | 898 | 100 |

^aCalculated as the percentage of all cases diagnosed in 2004.

Diagnosed HIV/AIDS Cases by Year of Diagnosis and Risk Factor Alabama 1999-2004



Diagnosed HIV/AIDS Cases by Year of Diagnosis and Age Group Alabama 1999-2004

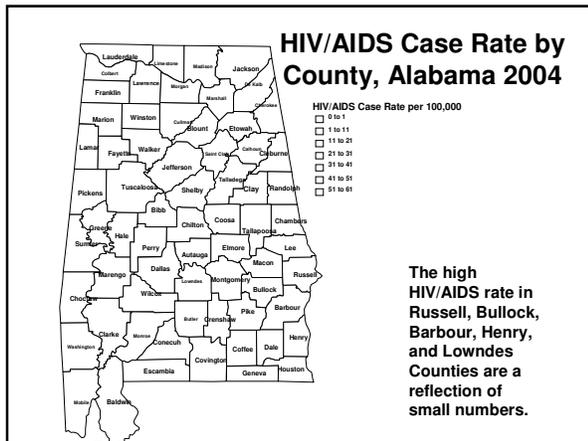


HIV/AIDS Cases Among Alabama Residents Age 25-44 Years Diagnosed in 2004

- Of the 541 HIV/AIDS cases diagnosed in 2004 among Alabama residents aged 25-44, 71% of the HIV/AIDS cases were diagnosed among blacks.
 - 43% among black males
 - 28% among black females

HIV/AIDS Cases by County, Alabama 2004





Estimation of Alabama's at Risk Population

At Risk Estimate Among Drug Users

- 2002 State of Alabama Profile of Drug Indicators, 3.69% (168,469) of Alabama's population used illicit drugs other than marijuana in the past month.

At Risk Estimate Among Drug Users

- 2003 YRBS
 - Cocaine use in the past 30 days
 - 3.6% male students
 - 2.7% female students
 - Heroin use in their lifetime
 - 4.3 % male students
 - 0.8% female students
 - Injected illegal drugs in their lifetime
 - 2.8% male students
 - 1.5% female students

At Risk Estimate Among Alabamians Having Sexual Intercourse

- According to the 2000 General Social Survey, 3.4% of the US population ≥18 years of age were at sexual risk for contracting HIV
- Apply that inference to Alabama
 - $4,565,544 * 0.736 * 0.034 = 114,248$

At Risk Estimate Among Alabamians Having Sexual Intercourse

- 2003 YRBS
 - 20.9% of adolescents 15 – 17 years of age had ≥ 4 sexual partners during their lifetime.
 - 61.8% of adolescents 15 – 17 years of age used a condom during their last sexual intercourse.

**At Risk Estimate Among
Alabamians Having Sexual
Intercourse**

- Alabama's population for those 15 – 19 years of age is 303,739. Estimate that 60% of those are 15 – 17 years of age.
 - $0.209 * (1-0.618) = 0.0798$
 - $0.6 * 303,739 = 182,243 * 0.0798 = 14,543$
- Total sexual at risk population is estimated to be 128,791 (114,248 + 14,543).

**Alabama's Total at
Risk Population for
Contracting HIV**

- Alabama's total at risk population for contracting HIV infection via drug dependence or abuse and/or sexual intercourse is ~ 297,260 or 6.5% of the State's population.